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 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  NOV 21  CAS patent coverage to include exemplified prophetic
                  substances identified in English-, French-, German-,
                  and Japanese-language basic patents from 2004-present
 NEWS  3  NOV 26  MARPAT enhanced with FSORT command
 NEWS  4  NOV 26  CHEMSAFE now available on STN Easy
 NEWS  5  NOV 26  Two new SET commands increase convenience of STN
                  searching
 NEWS  6  DEC 01  ChemPort single article sales feature unavailable
 NEWS  7  DEC 12  GBFULL now offers single source for full-text
                  coverage of complete UK patent families
 NEWS  8  DEC 17  Fifty-one pharmaceutical ingredients added to PS
 NEWS  9  JAN 06  The retention policy for unread STNmail messages
                  will change in 2009 for STN-Columbus and STN-Tokyo
 NEWS 10  JAN 07  WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
                  Classification Data

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 09:49:04 ON 21 JAN 2009

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.22       0.22

FILE 'REGISTRY' ENTERED AT 09:49:16 ON 21 JAN 2009
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STRUCTURE FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0
DICTIONARY FILE UPDATES: 20 JAN 2009 HIGHEST RN 1094597-78-0

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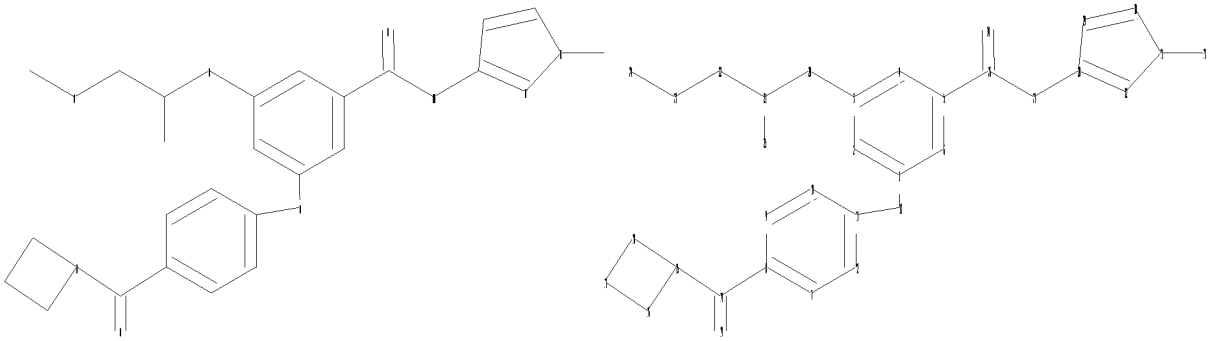
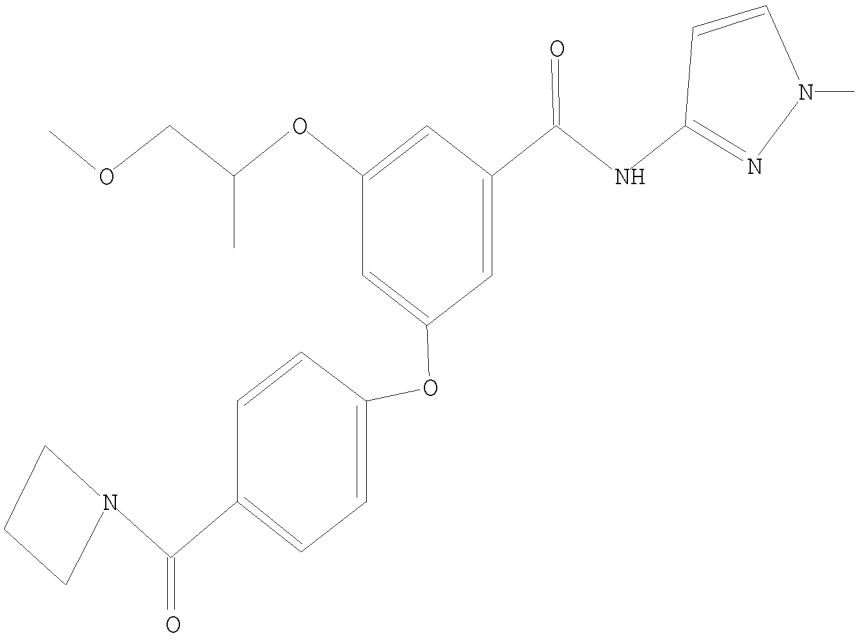


chain nodes :
13 14 19 20 21 22 23 24 25 26 27 33 34
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 15 16 17 18 28 29 30 31 32
chain bonds :
1-13 3-20 5-26 8-14 11-13 14-15 14-19 20-21 21-22 21-25 22-23 23-24
26-27 26-34 27-28 31-33
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 15-16 15-18
16-17 17-18 28-29 28-32 29-30 30-31 31-32
exact/norm bonds :
1-13 3-20 11-13 14-15 14-19 15-16 15-18 16-17 17-18 20-21 22-23 23-24
26-27 26-34 27-28 28-29 28-32 29-30 30-31 31-32 31-33
exact bonds :
5-26 8-14 21-22 21-25
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
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SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9 TO 360
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 sss ful
FULL SEARCH INITIATED 09:49:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 121 TO ITERATE

100.0% PROCESSED 121 ITERATIONS 9 ANSWERS

SEARCH TIME: 00.00.01

L3 9 SEA SSS FUL L1

=> fil cap
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 185.88 186.10

FILE 'CAPLUS' ENTERED AT 09:49:55 ON 21 JAN 2009
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FILE COVERS 1907 - 21 Jan 2009 VOL 150 ISS 4
FILE LAST UPDATED: 20 Jan 2009 (20090120/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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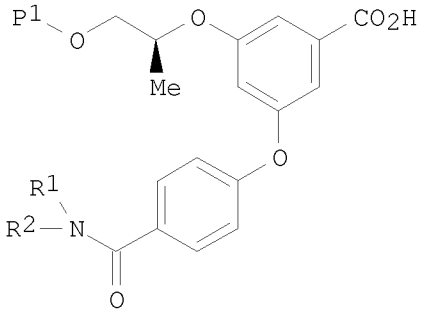
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> s l3
L4 4 L3

=> d l4 1-4 abs ibib hitstr

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
GI



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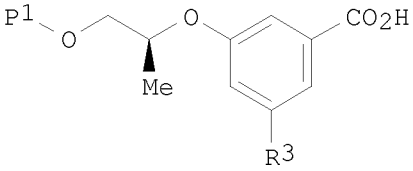

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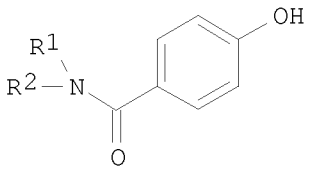


III

AB The present invention relates to an improved process for preparing I [R1 and R2 independently = H, alkyl; R1 and R2 may join together with N to form a 4- to 7-membered heterocyclyl ring; P1 = H or hydroxy protecting group], which are useful as intermediates to compds. which activate glucokinase. The method involves substitution of II [R3 = halo] with III to provide I in the presence of copper catalysts containing 2,2,6,6-tetramethylheptane-3,5-dione (TMHD) ligand. An alternative preparation of I via hydrolysis of corresponding ester is provided. I could be further reacted with (un)substituted 5 to 6-membered heterocyclic amine derivs. to generate corresponding amides by amidation. Thus, e.g., substitution of 3-bromo-5-((1S)-2-tert-butoxy-1-methylethoxy)benzoic acid (preparation given) with 4-(azetidin-1-ylcarbonyl)phenol (preparation given) using copper iodide as catalyst and TMHD as ligand gives desired intermediate 3-[4-(azetidin-1-ylcarbonyl)phenoxy]-5-[(1S)-2-tert-butoxy-1-methylethoxy]benzoic acid, which could further react with 1-methyl-3-aminopyrazole followed by hydrolysis to provide 3-[4-(azetidin-1-ylcarbonyl)phenoxy]-5-((1S)-2-hydroxy-1-methylethoxy)-N-(1-methyl-1H-pyrazol-3-yl)benzamide.

ACCESSION NUMBER: 2007:593421 CAPLUS
DOCUMENT NUMBER: 147:30824
TITLE: Method for preparing benzoic acid derivatives via substitution of haloalkoxybenzoic acid with aminocarbonylphenol utilizing copper catalysts containing 2,2,6,6-tetramethylheptane-3,5-dione ligand
INVENTOR(S): Hopes, Phillip Anthony; Parker, Jeremy Stephen; Patel, Bharti; Welham, Matthew James
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 29pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2007060448	A2	20070531	WO 2006-GB4399	20061127
WO 2007060448	A3	20080410		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
AU 2006318889	A1	20070531	AU 2006-318889	20061127
CA 2629995	A1	20070531	CA 2006-2629995	20061127
EP 1960354	A2	20080827	EP 2006-808668	20061127
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
CN 101316815	A	20081203	CN 2006-80044216	20080526
MX 200806788	A	20080604	MX 2008-6788	20080527
IN 2008DN04513	A	20080815	IN 2008-DN4513	20080527
US 20080300412	A1	20081204	US 2008-95101	20080527
KR 2008072738	A	20080806	KR 2008-715241	20080623

PRIORITY APPLN. INFO.: US 2005-740042P P 20051128
WO 2006-GB4399 W 20061127

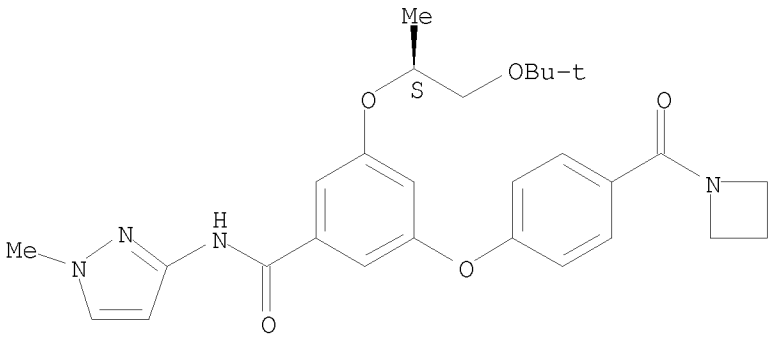
OTHER SOURCE(S): MARPAT 147:30824

IT 937842-59-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aryl amide using intermediate aminocarbonylphenoxyalkoxybenzoic acid with heterocyclic amine derivs. by amidation)

RN 937842-59-6 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)phenoxy]-5-[(1S)-2-(1,1-dimethylethoxy)-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = fluoromethoxymethyl, difluoromethoxymethyl or trifluoromethoxymethyl; R2 = -C(O)NR4R5, -SO2NR4R5, -S(O)pR4, etc.; Het-1 = 5- or 6-membered, C-linked heteroaryl ring containing a nitrogen atom in the 2-position and optionally 1 or 2 further ring heteroatoms selected from O, N and S, which ring is optionally substituted on an available carbon atom, or on a ring nitrogen atom provided it is not thereby quaternized, with 1 or 2 substituents selected from R6; R3 = halo; R4 = H, alkyl [optionally substituted by 1 or 2 substituents selected from -OR5, -SO2R5, cycloalkyl (optionally substituted by R7)], etc.; R5 = H, alkyl; R4 and R5 together with the nitrogen atom to which they are attached may form a heterocycle; R6 = alkyl, hydroxyalkyl, alkocyalkyl, etc.; R7 = alkyl, -C(O)alkyl, alkoxyalkyl, etc.; p = 0-2; n = 0-2] or their salts were prepared For example, reaction of 3-([(1S)-2-[(difluoromethyl)oxy]-1-methylethyl]oxy)-5-hydroxy-N-(1-methyl-1H-pyrazol-3-yl)benzamide, e.g., prepared from Me 3,5-dihydroxybenzoate in 9 steps, with 1-(3-chloro-4-fluorobenzoyl)azetidine afforded compound II. Compds. of the invention generally activated glucokinase with an EC50 of less than about 500 nM, e.g., compound II exhibited the EC50 value of 40 nM.

ACCESSION NUMBER: 2007:61636 CAPLUS
DOCUMENT NUMBER: 146:142648
TITLE: Preparation of heteroaryl benzamide derivatives as glucokinase activators for the treatment of diabetes
INVENTOR(S): McKerrecher, Darren; Pike, Kurt Gordon; Waring, Michael James
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 62pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2007007042	A1	20070118	WO 2006-GB2472		20060603
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
JP 2009500444	T	20090108	JP 2008-520937		20060703
IN 2007DN10164	A	20080620	IN 2007-DN10164		20071228
CN 101218230	A	20080709	CN 2006-80024889		20080108
US 20080234273	A1	20080925	US 2008-995079		20080606
PRIORITY APPLN. INFO.:			GB 2005-14174	A	20050709
			GB 2005-16298	A	20050809
			WO 2006-GB2472	W	20060603

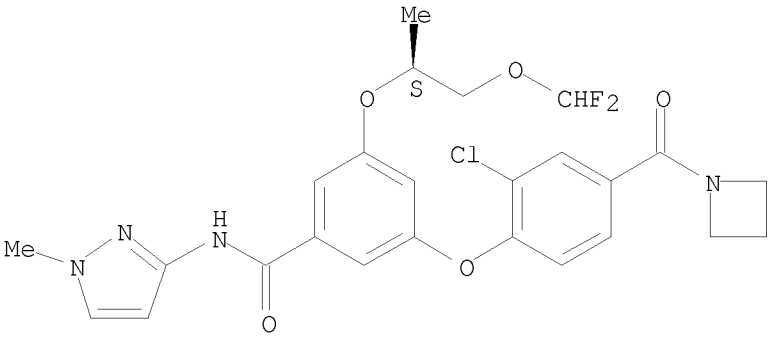
OTHER SOURCE(S): CASREACT 146:142648; MARPAT 146:142648
IT 919492-72-1P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of heteroaryl benzamide derivs. as glucokinase activators for treatment of diabetes)

RN 919492-72-1 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-chlorophenoxy]-5-[(1S)-2-(difluoromethoxy)-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



IT 919492-73-2P

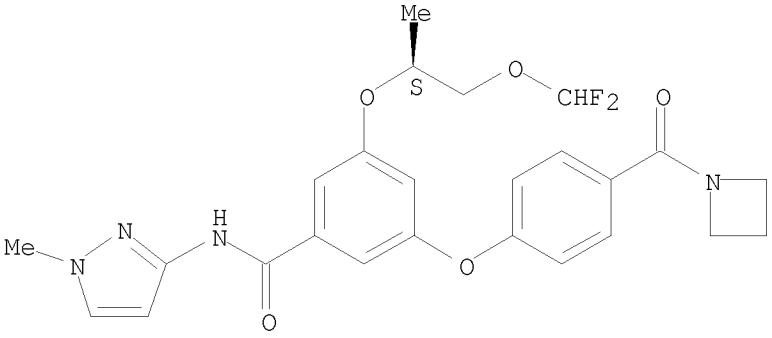
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heteroaryl benzamide derivs. as glucokinase activators for treatment of diabetes)

RN 919492-73-2 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)phenoxy]-5-[(1S)-2-(difluoromethoxy)-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

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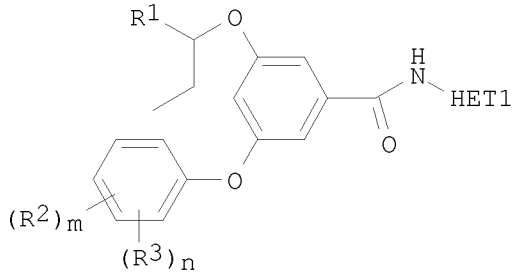

I

AB Title compds. [I; R1 = MeOCH2; R2 = CONR4R5, SO2NR4R5, SOpR4, HET2; HET1 = 5-6 membered (substituted) C-linked heteroaryl; HET2 = 4-6 membered, C- or N-linked (substituted) heterocyclyl; R3 = halo, FCH2, F2CH, CF3, Me, MeO, cyano; R4 = H, (substituted) alkyl, HET2; R5 = H, alkyl; R4R5N = HET3; HET3 = (substituted) N-linked, 4-6 membered, saturated or partially unsatd. heterocyclyl; n, p = 0-2; m = 0, 1; provided that when m = 0, then n = 1, 2], were prepared Thus, 3-[4-(azetidin-1-ylcarbonyl)-2-fluorophenoxy]-5-[[(1S)-1-(methoxymethyl)propyl]oxy]-N-(1-methyl-1H-pyrazol-3-yl)benzamide (preparation outlined) activated glucokinase with EC50 = 0.04 μM.

ACCESSION NUMBER: 2006:366940 CAPLUS
DOCUMENT NUMBER: 144:412497
TITLE: Preparation of N-pyrazolyl phenoxybenzamides as glucokinase activators for the treatment of type 2 diabetes.
INVENTOR(S): Johnstone, Craig; McKerrecher, Darren; Pike, Kurt Gordon; Waring, Michael James
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006040528	A1	20060420	WO 2005-GB3888	20051011
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EP 1856056	A1	20071121	EP 2005-791490	20051011
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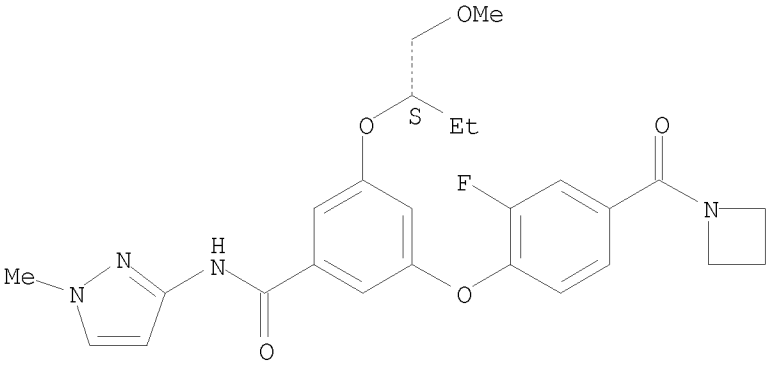
JP 2008516936	T	20080522	JP 2007-536248	20051011
IN 2007DN02527	A	20070803	IN 2007-DN2527	20070404
US 20080280874	A1	20081113	US 2008-665163	20080605
PRIORITY APPLN. INFO.:			GB 2004-23043 A	20041016
			WO 2005-GB3888 W	20051011

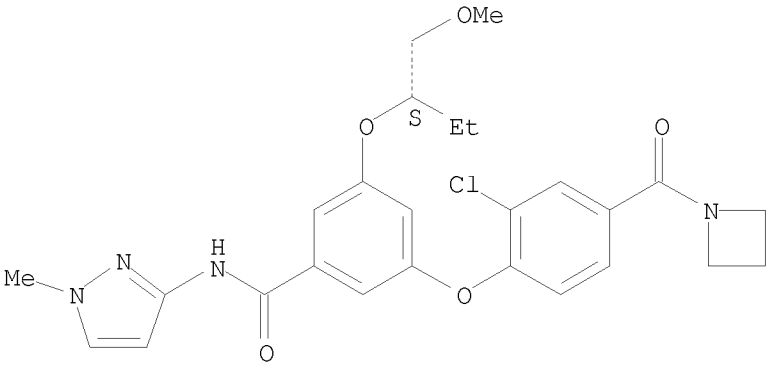
OTHER SOURCE(S): MARPAT 144:412497
IT 883749-41-5P 883749-42-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of N-pyrazolyl phenoxybenzamides as glucokinase
activators for the treatment of type 2 diabetes)
RN 883749-41-5 CAPLUS
CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-fluorophenoxy]-5-[(1S)-1-(methoxymethyl)propoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 883749-42-6 CAPLUS
CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-chlorophenoxy]-5-[(1S)-1-(methoxymethyl)propoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
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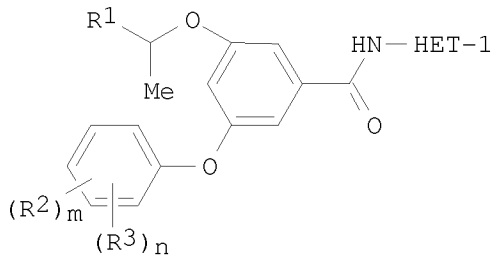

I

AB Title compds. I [R1 = methoxymethyl; R2 = carboxamido, sulfonamido, etc.; HET-1 = 5-6 membered C-linked heteroaryl; R3 = halo, fluoromethyl, difluoromethyl, etc.; m = 0-1; n = 0-2] are prepared For instance, 3-[4-[[(2-methoxyethyl)amino]carbonyl]phenoxy]-5-[((1S)-2-methoxy-1-methylethyl)oxy]-N-(thiazol-2-yl)benzamide is prepared by the coupling of 4-[[3-[[(1S)-2-methoxy-1-methylethyl]oxy]-5-[(thiazol-2-ylamino)carbonyl]phenyl]oxy]benzoic acid (preparation given) and 2-methoxyethylamine (DMF, DIPEA, HATu). Compds. of the invention generally have an activating activity for glucokinase with an EC50 of < 500 nM. I are useful in the treatment of type 2 diabetes.

ACCESSION NUMBER: 2005:962230 CAPLUS
DOCUMENT NUMBER: 143:266914
TITLE: Preparation of N-heteroaryl aryloxy-substituted benzamides as glucokinase activating agents
INVENTOR(S): Johnstone, Craig; McKerrecher, Darren; Pike, Kurt Gordon
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 138 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080359	A1	20050901	WO 2005-GB545	20050215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005214132	A1	20050901	AU 2005-214132	20050215
CA 2554310	A1	20050901	CA 2005-2554310	20050215
EP 1718624	A1	20061108	EP 2005-708360	20050215
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CN 1922159	A	20070228	CN 2005-80005262	20050215
BR 2005007746	A	20070710	BR 2005-7746	20050215
JP 2007523142	T	20070816	JP 2006-553652	20050215
NO 2006003452	A	20061031	NO 2006-3452	20060726
IN 2006DN04322	A	20070427	IN 2006-DN4322	20060727

US 20080280872	A1	20081113	US 2006-588334		20060803
MX 2006PA09511	A	20061107	MX 2006-PA9511		20060818
KR 2007007103	A	20070112	KR 2006-719123		20060918
PRIORITY APPLN. INFO.:			GB 2004-3593	A	20040218
			GB 2004-13386	A	20040616
			GB 2004-23039	A	20041016
			WO 2005-GB545	W	20050215

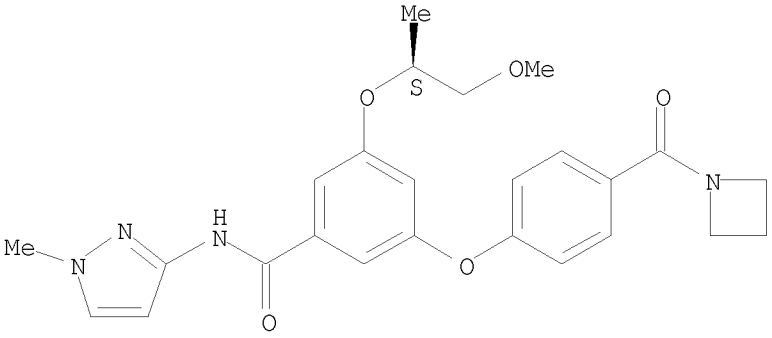
OTHER SOURCE(S): CASREACT 143:266914; MARPAT 143:266914

IT 863504-11-4P 863504-45-4P 863504-46-5P
863504-47-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-heteroaryl aryloxy-substituted benzamides as glucokinase activating agents)

RN 863504-11-4 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)phenoxy]-5-[(1S)-2-methoxy-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

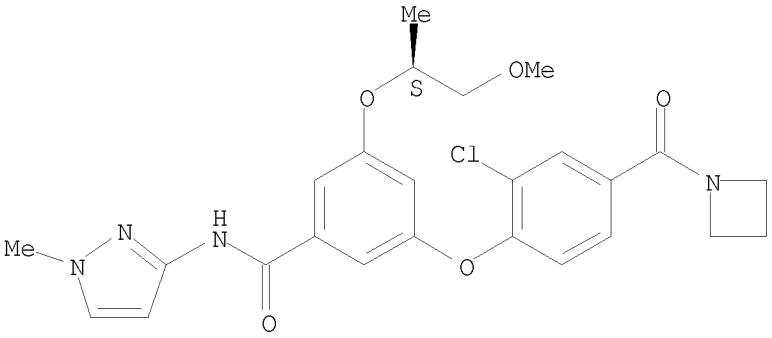
Absolute stereochemistry.



RN 863504-45-4 CAPLUS

CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-chlorophenoxy]-5-[(1S)-2-methoxy-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

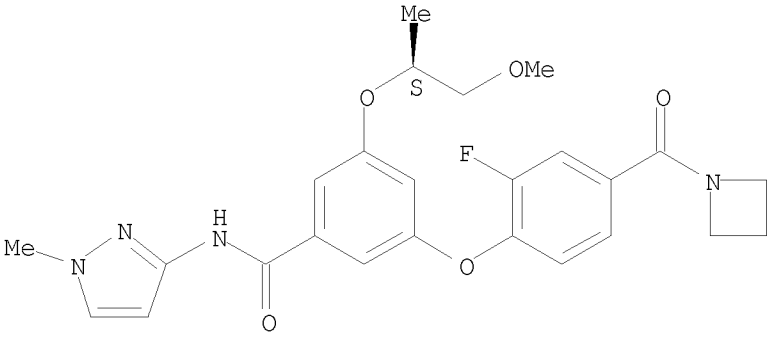
Absolute stereochemistry.



RN 863504-46-5 CAPLUS

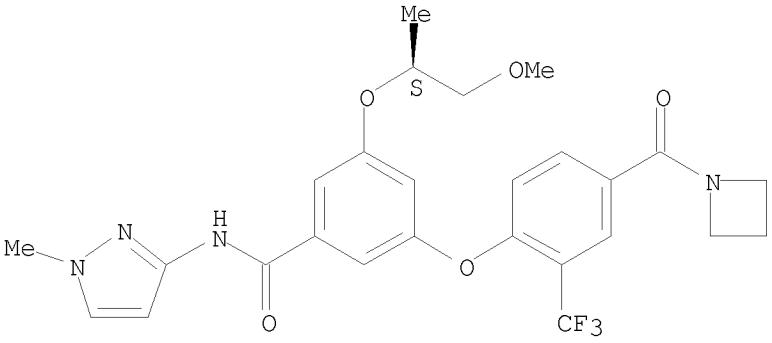
CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-fluorophenoxy]-5-[(1S)-2-methoxy-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 863504-47-6 CAPLUS
CN Benzamide, 3-[4-(1-azetidinylcarbonyl)-2-(trifluoromethyl)phenoxy]-5-[(1S)-2-methoxy-1-methylethoxy]-N-(1-methyl-1H-pyrazol-3-yl)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	24.06	210.16

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.28	-3.28

STN INTERNATIONAL LOGOFF AT 09:51:45 ON 21 JAN 2009

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 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  NOV 21  CAS patent coverage to include exemplified prophetic
                  substances identified in English-, French-, German-,
                  and Japanese-language basic patents from 2004-present
 NEWS  3  NOV 26  MARPAT enhanced with FSORT command
 NEWS  4  NOV 26  CHEMSAFE now available on STN Easy
 NEWS  5  NOV 26  Two new SET commands increase convenience of STN
                  searching
 NEWS  6  DEC 01  ChemPort single article sales feature unavailable
 NEWS  7  DEC 12  GBFULL now offers single source for full-text
                  coverage of complete UK patent families
 NEWS  8  DEC 17  Fifty-one pharmaceutical ingredients added to PS
 NEWS  9  JAN 06  The retention policy for unread STNmail messages
                  will change in 2009 for STN-Columbus and STN-Tokyo
 NEWS 10  JAN 07  WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
                  Classification Data

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 13:15:24 ON 21 JAN 2009

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FULL ESTIMATED COST                                       0.22       0.22

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DICTIONARY FILE UPDATES:  20 JAN 2009  HIGHEST RN 1094597-78-0

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http://www.cas.org/support/stngen/stndoc/properties.html

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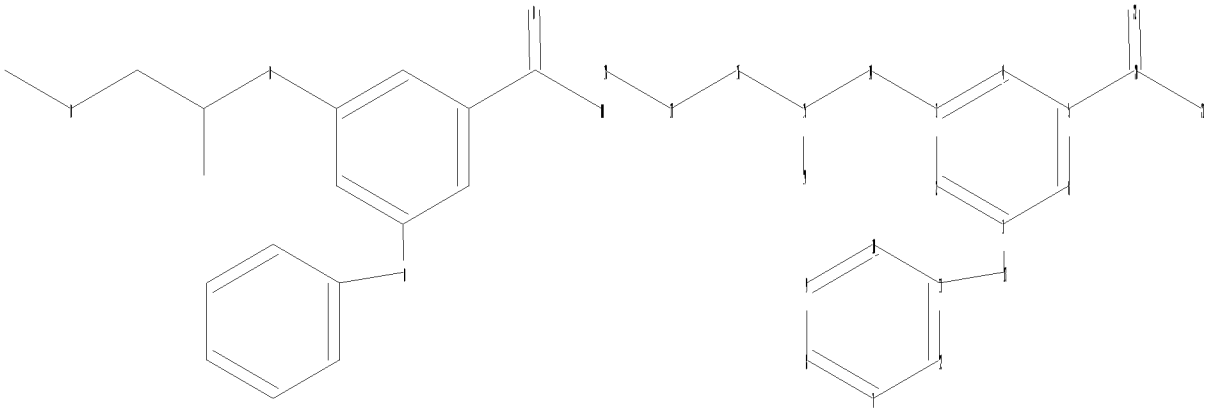

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ring nodes :
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chain bonds :
1-13 3-14 5-20 11-13 14-15 15-16 15-19 16-17 17-18 20-21 20-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-13 3-14 11-13 14-15 16-17 17-18 20-21 20-22
exact bonds :
5-20 15-16 15-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS

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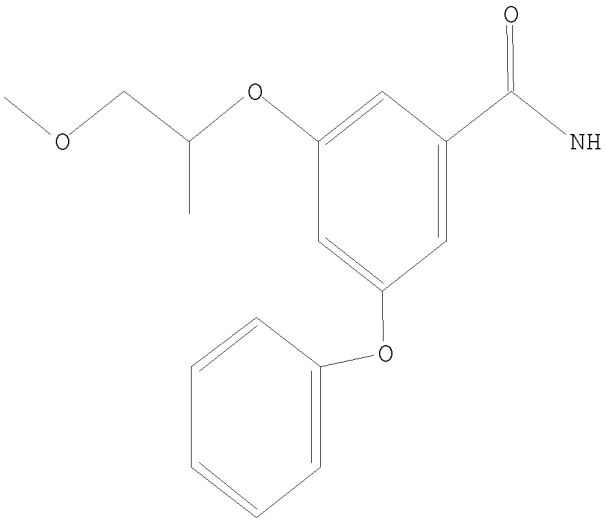

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COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 185.88 186.10

FILE 'CAPLUS' ENTERED AT 13:16:02 ON 21 JAN 2009

FILE COVERS 1907 - 21 Jan 2009 VOL 150 ISS 4
FILE LAST UPDATED: 20 Jan 2009 (20090120/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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L3          14 L2

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L4           1 L3 AND (PY<2005 OR AY<2003 OR PRY<2003)

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L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on STN
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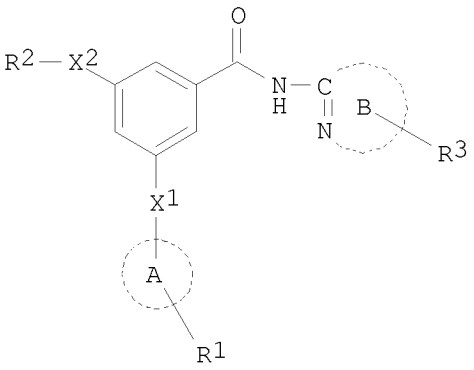

I

AB The title compds. (I) [wherein X1 =O, S, NH; X2 = O, S, CH2; R1 = 1 or 2 groups selected alkylsulfonyl, alkanoyl, lower alkyl, hydroxyalkyl, HO, mono or dialkylcarbamoyl, mono- or dialkylsulfamoyl, alkylthio, alkoxy, alkoxycarbonylamino, alkoxycarbonyl, halo, alkanoylaminoalkyl, alkoxycarbonylaminoalkyl, alkylsulfonylaminoalkyl, cyano, and CF3 on the ring A; R2 = (un)substituted C3-7 cyclic alkyl optionally having one of the carbon atoms (excluding the carbon linked to X2) on the ring replaced by O, NH, N-alkanoyl, or NHCO; R3 = 1 or 2 groups selected from lower alkyl, alkoxy, mono- or dialkylamino, halo, CF3, hydroxyalkyl, alkoxyalkyl, aminoalkyl, alkanoyl, CO2H, alkoxycarbonyl, and cyano on the ring B; the ring A = 6- to 10-membered aryl or 5- to 7-membered heteroaryl; the ring B = mono- or bicyclic heteroaryl wherein the carbon atom bonded to the amide N atom forms C:N together with the ring N atom] or pharmaceutically acceptable salts thereof. These compds. and salts thereof function to activate glucokinase and are useful as preventive and/or therapeutic agents for obesity or diabetes or for the treatment, prevention. and/or onset of type II diabetes. Thus, S-oxidation of 5-[[(1S)-2-(tert-butyldimethylsilyloxy)-1-methylethyl]oxy]-3-(4-methylthiophenoxy)benzoic acid Me ester by m-chloroperbenzoic acid in CHCl3 under ice-cooling, saponification with a mixture of 5 N NaOH and MeOH and acidification with 5% citric acid, amidation with 2-aminothiazole using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride and 1-hydroxybenzotriazole hydrate in CH2Cl2, and finally desilylation with 4 N HCl/dioxane at room temperature for 15 min gave 5-(2-hydroxy-1-methylethoxy)-3-[4-(methanesulfonyl)phenoxy]-N-(thiazol-2-

yl)benzamide (II). II activated recombinant human liver glucokinase with EC50 of 0.08 μM.

ACCESSION NUMBER: 2004:740302 CAPLUS
DOCUMENT NUMBER: 141:260754
TITLE: Preparation of heteroarylcarbamoylbenzene derivatives as glucokinase activators
INVENTOR(S): Iino, Tomoharu; Hashimoto, Noriaki; Nakashima, Hiroshi; Takahashi, Keiji; Nishimura, Teruyuki; Eiki, Junichi
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 288 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004076420	A1	20040910	WO 2004-JP2284	20040226 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
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AU 2004215514	A1	20040910	AU 2004-215514	20040226 <--
CA 2516407	A1	20040910	CA 2004-2516407	20040226 <--
EP 1600442	A1	20051130	EP 2004-714930	20040226
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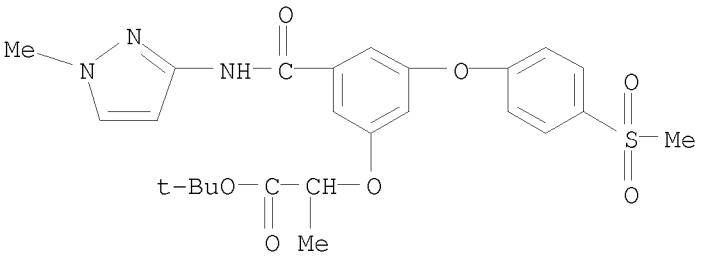
BR 2004007810	A	20060301	BR 2004-7810	20040226
CN 1777589	A	20060524	CN 2004-80010759	20040226
RU 2330030	C2	20080727	RU 2005-129729	20040226
ZA 2005005982	A	20060726	ZA 2005-5982	20050726
IN 2005DN03604	A	20070601	IN 2005-DN3604	20050816
US 20060167053	A1	20060727	US 2005-546962	20050825
US 7432287	B2	20081007		
NO 2005004425	A	20050923	NO 2005-4425	20050923
US 20090018056	A1	20090115	US 2008-231856	20080905

PRIORITY APPLN. INFO.:

JP 2003-49466	A	20030226
JP 2003-400882	A	20031128
JP 2004-31298	A	20040206
WO 2004-JP2284	A	20040226
US 2005-546962	A3	20050825

OTHER SOURCE(S): MARPAT 141:260754
IT 752240-23-6P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of heteroarylcarbamoylbenzene derivs. as glucokinase activators for treatment of diabetes)
RN 752240-23-6 CAPLUS
CN Propanoic acid, 2-[3-[[(1-methyl-1H-pyrazol-3-yl)amino]carbonyl]-5-[4-(methylsulfonyl)phenoxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)



IT 752238-92-9P 752238-93-0P 752238-95-2P
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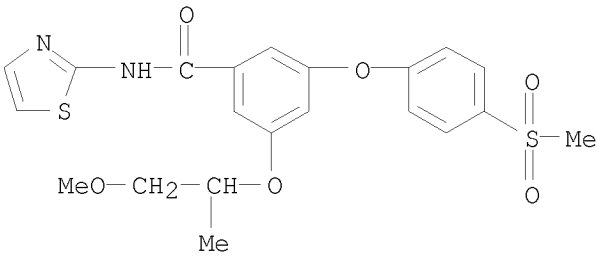
752239-74-0P 752239-98-8P 752240-73-6P
752240-79-2P 752240-95-2P 752241-29-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of heteroarylcarbamoylbenzene derivs. as glucokinase activators for treatment of diabetes)

RN 752238-92-9 CAPLUS
CN Benzamide, 3-(2-methoxy-1-methylethoxy)-5-[4-(methylsulfonyl)phenoxy]-N-2-thiazolyl- (CA INDEX NAME)



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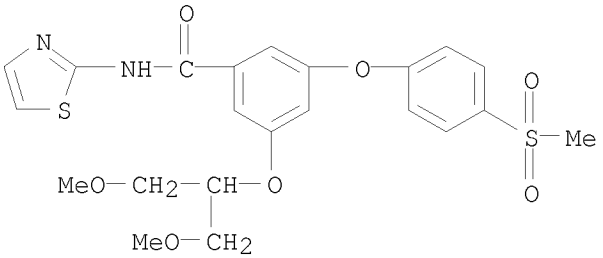

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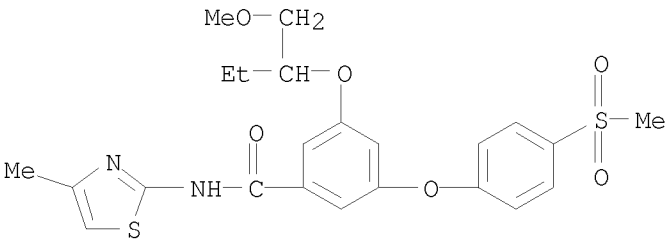

RN 752239-03-5 CAPLUS
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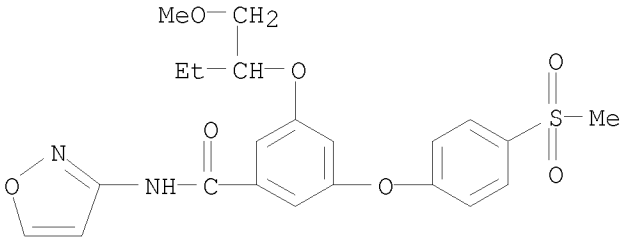

RN 752239-04-6 CAPLUS
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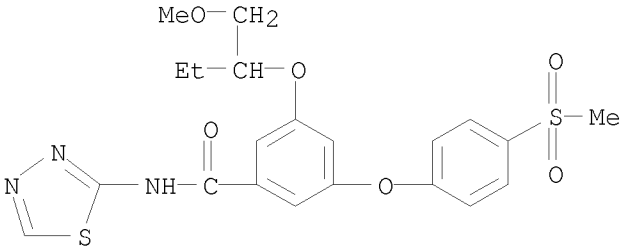

RN 752239-06-8 CAPLUS
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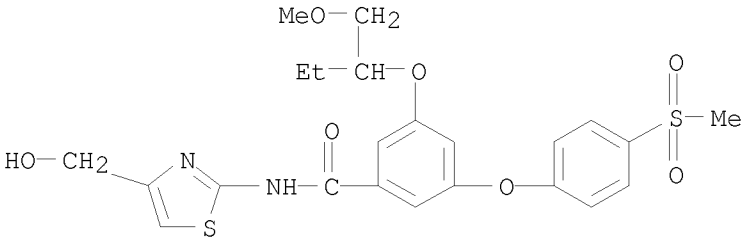
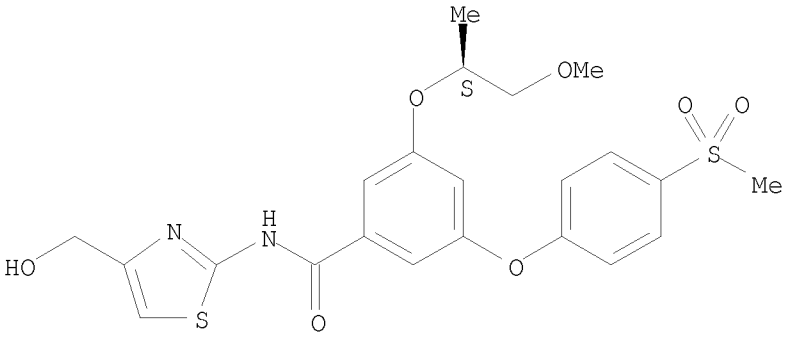


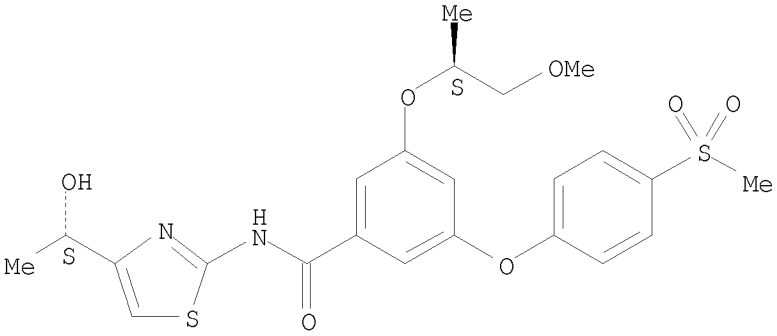
RN 752239-30-8 CAPLUS
CN Benzamide, N-[4-(hydroxymethyl)-2-thiazolyl]-3-[(1S)-2-methoxy-1-methylethoxy]-5-[4-(methylsulfonyl)phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.



RN 752239-35-3 CAPLUS
CN Benzamide, N-[4-[(1S)-1-hydroxyethyl]-2-thiazolyl]-3-[(1S)-2-methoxy-1-methylethoxy]-5-[4-(methylsulfonyl)phenoxy]- (CA INDEX NAME)

Absolute stereochemistry.



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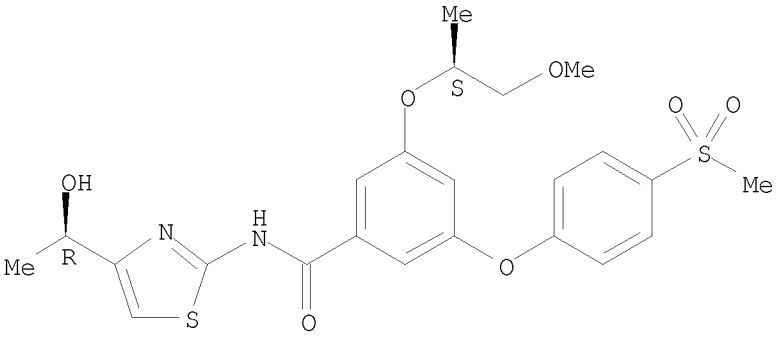
Absolute stereochemistry.



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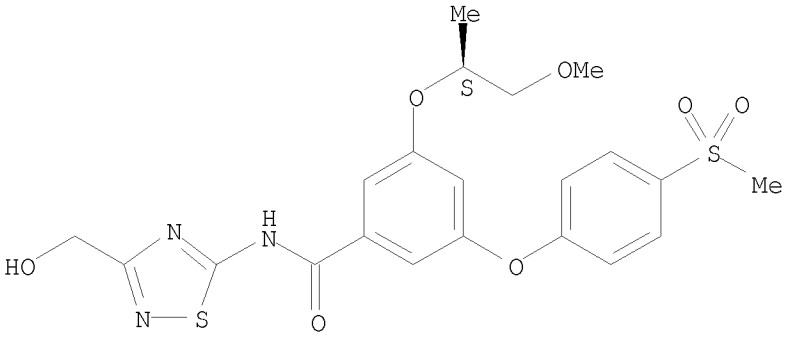
Absolute stereochemistry.



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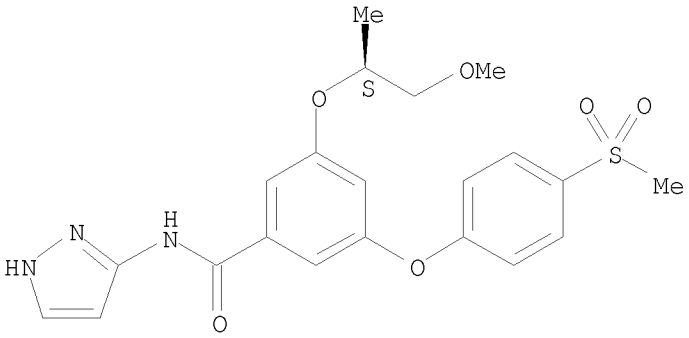

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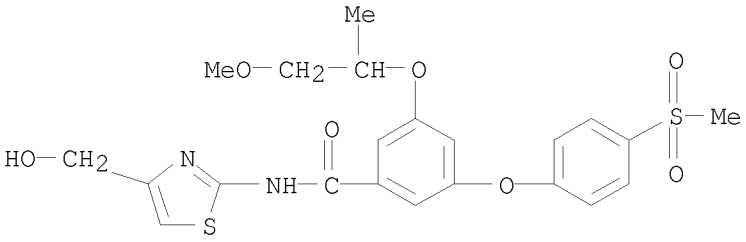

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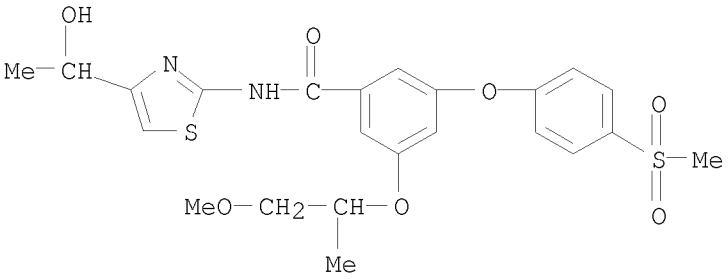

RN 752240-95-2 CAPLUS
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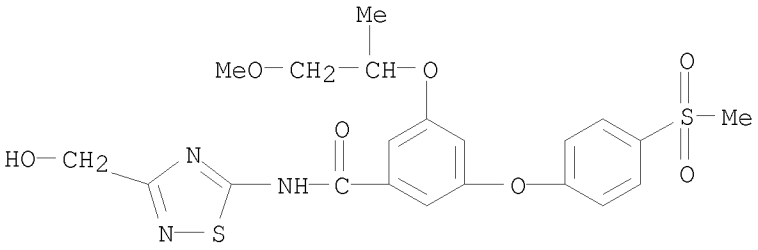

RN 752241-29-5 CAPLUS
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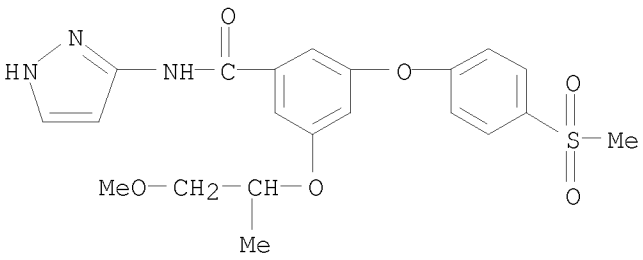

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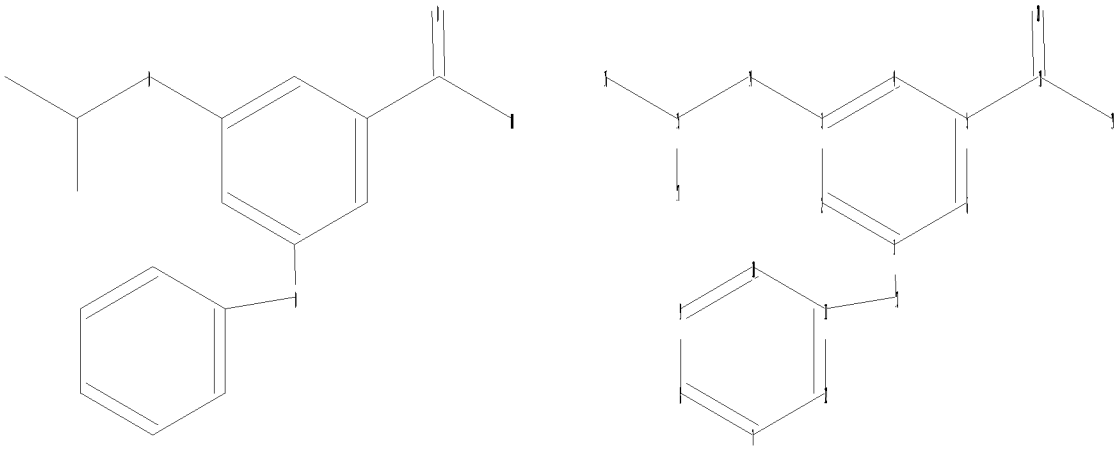

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exact/norm bonds :
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Match level :
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FILE LAST UPDATED: 20 Jan 2009  (20090120/ED)

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IN   Iino, Tomoharu; Hashimoto, Noriaki; Nakashima, Hiroshi; Takahashi, Keiji;
     Nishimura, Teruyuki; Eiki, Junichi
PA   Banyu Pharmaceutical Co., Ltd., Japan
SO   PCT Int. Appl., 288 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
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     CN 1777589           A     20060524    CN 2004-80010759       20040226
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OS   MARPAT 141:260754
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              ALL CITATIONS AVAILABLE IN THE RE FORMAT


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